



Archbishop MacDonald Catholic High School

Course Chemistry 30

Year 2025-2026

Term Semester 1

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Resources *Chemistry Alberta 20-30, Jenkins et-al, Nelson Education, 2007*

Program of Studies [Chemistry Program of Studies](#)

Overview

A. Thermochemical Changes (20%)

Students will study energy as it relates to chemical changes and quantify the energy involved in thermochemical systems and consider the various aspects of energy use in society.

B. Electrochemical Changes (30%)

Students will study electrochemical change and analyze the matter and energy changes within a chemical system.

C. Chemical Changes of Organic Compounds (20%)

Students will learn about common organic compounds and describe their properties and reactions. The significance of organic chemistry, in the context of technological applications and quality of life, is explored.



D. Chemical Equilibrium Focusing on Acid-Base Systems (30%)

Students will explore the concept that chemical change eventually attains equilibrium is developed, followed by a focus on the quantitative treatment of reaction systems involving acid-base solutions.

IB Philosophy

MAC's courses use the IB philosophy to encourage the holistic development of all students. The Learner Profile and Approaches to Teaching and Learning are used at all levels so that students develop a better understanding of curriculum objectives. This course will focus on the Learner Profile for THINKERS because we use critical and creative thinking skills to act on complex problems. Our Approaches to Learning skill will be THINKING because we emphasize skills such as reflection and critical thinking.

Assessment

The assessment plan for the course will be a balance of assessment for learning, assessment as learning, and assessment of learning. Your summative grade will be calculated **cumulatively** throughout the semester with the following:

Unit A – Thermochemical Changes	20%
Unit B – Electrochemical Changes	30%
Unit C – Chemical Changes of Organic Compounds	20%
Unit D – Chemical Equilibrium Focussing on Acid-Base Systems	30%

The school awarded mark is based on 100% of the listed categories. Alberta Education will arrive at a blended mark which weighs the diploma exam at 30% and the school awarded mark at 70%.

The code NHI may be used to represent coursework that has not been handed in. It is representative of zero. In addition, the following may appear for a student in PowerSchool instead of, or in addition to, a numeric grade:



Disclaimer

A wide range of assessment information is used in the development of a student's final grade. At Archbishop Macdonald Catholic High School, individualized assessments provide specific information regarding student progress and overall performance in class. Student assessment may vary from student to student to adapt for differences in student needs, learning styles, preferences, and paces. It should also be noted that not

all assignments are used to determine the final grade, and that scale factors may have been used to determine the weight of individual assignments.

**Personal Mobile
Device Standards**

Mobile Devices and Social Media Use:

- Personal mobile devices are to be silenced or turned off and stored in the student's assigned locker during the day, which must be locked.
- No personal mobile devices are to be used during the day except for at lunch.
- No social media is to be accessed during the school day.
- Tablets/laptops are used for educational purposes only.
- The standard for Personal Mobile Devices includes cell phones, SMART watches, earbuds, and headphones
- Non-compliance with the standards will result in consequences of a suspension or loss of privileges such as participation in school trips, or activities, sports teams, and extracurricular activities.

Expectations

Unexcused absences and/or lates are unacceptable and may have a negative effect on the grade. Missed coursework may be expected to be completed and may be scored as zero or NHI until submitted (see disclaimer).

**Laboratory Safety
Standard**

Science at Archbishop MacDonald is a hands-on, skill-based discipline involving activities that may entail risk. Safety in the laboratory takes precedence over all instructional concerns. To ensure your safety and the safety of others, the following laboratory safety standard is always in effect:

1. Conduct must be professional. Counter-sitting, throwing, playing, pranking, and unsanctioned experiments are prohibited.
2. Footwear must completely cover the foot. Sandals, slides, and/or clogs are prohibited.
3. Food and/or drink are prohibited.

There is a **zero-tolerance policy** for violations of the safety standards; failure to comply with these standards will result in immediate exclusion from the lab activity. Additional safety measures that are activity-dependent may also be required.

Student Handbook [LINK](#)

Academic Integrity [LINK](#)